

ASPECT MEDICAL SYSTEMS INC
 Form 4
 April 27, 2005

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
 Washington, D.C. 20549

OMB APPROVAL
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *
 BOSTON SCIENTIFIC CORP

2. Issuer Name and Ticker or Trading Symbol
 ASPECT MEDICAL SYSTEMS INC [ASPM]

5. Relationship of Reporting Person(s) to Issuer
 (Check all applicable)

(Last) (First) (Middle)
 ONE BOSTON SCIENTIFIC PLACE
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
 04/25/2005

____ Director
 ____ Officer (give title below)
 10% Owner
 ____ Other (specify below)

NATICK, MA 017601537

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

(City) (State) (Zip)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|---|
| | | | Code | V | Amount or Price | | |
| Common Stock | 04/25/2005 | | P | | 200 A \$ 25.25 | 5,417,088 | D |
| Common Stock | 04/25/2005 | | P | | 9,131 A \$ 25.9 | 5,426,219 | D |
| Common Stock | 04/25/2005 | | P | | 400 A \$ 25.91 | 5,426,619 | D |
| Common Stock | 04/25/2005 | | P | | 600 A \$ 25.92 | 5,427,219 | D |
| Common Stock | 04/25/2005 | | P | | 200 A \$ 25.93 | 5,427,419 | D |

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| | | | | | | | |
|--------------|------------|---|--------|---|----------|-----------|---|
| Common Stock | 04/25/2005 | P | 1,500 | A | \$ 25.94 | 5,428,919 | D |
| Common Stock | 04/25/2005 | P | 4,400 | A | \$ 25.95 | 5,433,319 | D |
| Common Stock | 04/25/2005 | P | 24,606 | A | \$ 26 | 5,457,925 | D |
| Common Stock | 04/25/2005 | P | 500 | A | \$ 26.01 | 5,458,425 | D |
| Common Stock | 04/25/2005 | P | 100 | A | \$ 26.02 | 5,458,525 | D |
| Common Stock | 04/25/2005 | P | 500 | A | \$ 26.03 | 5,459,025 | D |
| Common Stock | 04/25/2005 | P | 100 | A | \$ 26.04 | 5,459,125 | D |
| Common Stock | 04/25/2005 | P | 18,067 | A | \$ 26.1 | 5,477,192 | D |
| Common Stock | 04/25/2005 | P | 100 | A | \$ 26.23 | 5,477,292 | D |
| Common Stock | 04/25/2005 | P | 500 | A | \$ 26.24 | 5,477,792 | D |
| Common Stock | 04/25/2005 | P | 8,970 | A | \$ 26.25 | 5,486,762 | D |
| Common Stock | 04/25/2005 | P | 200 | A | \$ 26.27 | 5,486,962 | D |
| Common Stock | 04/25/2005 | P | 1,100 | A | \$ 26.3 | 5,488,062 | D |
| Common Stock | 04/25/2005 | P | 594 | A | \$ 26.35 | 5,488,656 | D |
| Common Stock | 04/25/2005 | P | 200 | A | \$ 26.36 | 5,488,856 | D |
| Common Stock | 04/25/2005 | P | 100 | A | \$ 26.37 | 5,488,956 | D |
| Common Stock | 04/25/2005 | P | 7,432 | A | \$ 26.4 | 5,496,388 | D |
| Common Stock | 04/25/2005 | P | 400 | A | \$ 26.44 | 5,496,788 | D |
| Common Stock | 04/25/2005 | P | 200 | A | \$ 26.45 | 5,496,988 | D |
| Common Stock | 04/25/2005 | P | 4,900 | A | \$ 26.5 | 5,501,888 | D |

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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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(9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned
(e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Number of Derivative Securities Owned Following Transaction (Instr. 6) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|---|
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|---|

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

BOSTON SCIENTIFIC CORP
ONE BOSTON SCIENTIFIC PLACE
NATICK, MA 017601537

X

Signatures

By: /s/Lawrence J. Knopf, Vice President

04/27/2005

__Signature of Reporting Person

Date

Explanation of Responses:

* If the form is filed by more than one reporting person, see Instruction 4(b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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